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mdt of 3-3-04

Amendments to the Claims

1-12. (Cancelled)

13. (Currently amended) An isolated peptide selected from the group consisting of  
(a) the peptide of SEQ ID No. 1, said peptide having a calcium channel modulatory function, and  
(b) functional variants thereof, said functional variants (i) comprising at least 6 amino acid residues, (ii) having at least 70% homology with all of the peptide of SEQ. ID No. 1 and (iii) retaining said calcium channel modulatory function of the peptide of SEQ. ID No. 1 ~~and having no~~ cholinesterase activity.

14-15. (Cancelled)

16. (Previously presented) A probe consisting of the peptide of claim 13, labeled with a signal moiety, or immobilized on a solid support.

17-29. (Cancelled)

30. (Previously presented) The peptide as claimed in claim 13, which peptide is a fragment of acetylcholinesterase.

31. (Previously presented) The peptide as claimed in claim 13, which peptide has been chemically synthesized.

32. (Previously presented) The peptide as claimed in claim 13, which is the peptide of SEQ. ID No. 1.

5,932, 780  
70% col 8  
col 25-26  
col 43-44  
522-535-548

**33. (Previously presented)** A method for obtaining an antibody comprising using the peptide according to any one of claims 13, 30, 31 and 32 as an antigen to obtain said antibody.

**34. (Withdrawn)** A method of screening comprising using the peptide according to any one of claims 13, 30, 31 and 32 to screen for a compound which inhibits the activity of said peptide as a calcium channel modulator.

**35. (Withdrawn)** A method of identifying a compound which inhibits calcium channel modulation, said method comprising using the screening method according to claim 34 to screen for and identify said compound.

**36. (Withdrawn)** A method of preparing a composition which inhibits calcium channel modulation, said method comprising incorporating the compound identified by the method according to claim 35, into a composition for human administration.

**37. (Withdrawn)** A method of inhibiting calcium channel modulation comprising administering an effective amount of the compound identified by the method according to claim 35.

**38. (Withdrawn)** A method of inhibiting calcium channel modulation comprising administering an effective amount of the composition prepared by the method according to claim 36.

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